

308 Constitution Drive Menlo Park, CA 94025-1164 Phone: 800-227-4856 www.circuitprotection.com

## **PolySwitch**® **PTC Devices**

**Overcurrent Protection Device** 

Raychem Circuit Protection Products

PRODUCT: VLP270F

DOCUMENT: SCD 25981

PCN: D47095 **REV LETTER: B** 

**REV DATE: JUNE 22, 2007** 

PAGE NO.: 1 OF 1

## **Specification Status: Released**

**Electrical Rating** Voltage: 16V MAX **Current: 60A MAX** 

Chip Size: 5 X 12mm

Leads: Nickel 1/4H

0.125mm nominal thickness

Tape: Polyester (White)

13mm Width

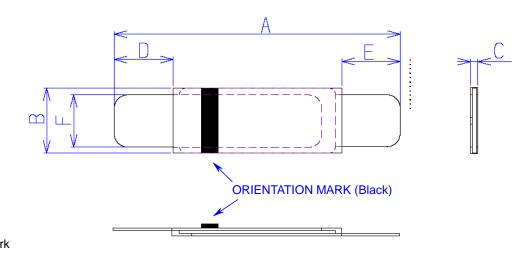
Solder: Lead-free

Lot Marking Ink Color (Green)

Marking:

Manufacturer's Mark Part Identification

Lot Identification



## **TABLE I. DIMENSIONS:**

|      | Α      |        | В      |        | С      |        | D      |        | Е      |        | F      |        | G   |     |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|
|      | MIN    | MAX    | MIN | MAX |
| mm:  | 20.9   | 23.1   | 4.9    | 5.3    | 0.6    | 8.0    | 4.1    | 5.8    | 4.1    | 5.8    | 3.9    | 4.1    |     |     |
| in*: | (0.82) | (0.92) | (0.19) | (0.21) | (0.02) | (0.03) | (0.16) | (0.23) | (0.16) | (0.23) | (0.15) | (0.16) |     |     |

<sup>\*</sup>Rounded off approximation

## TABLE II. PERFORMANCE RATINGS: As measured in Muller Kelvin Clips Model BU-75K.

|   | I HOLD | CURRENT TRIP LIMITS |      |         |      |         |      |      |      |             | TO                   | REFERENCE ONE-HOUR |       |         | TRIPPED-         |             |     |
|---|--------|---------------------|------|---------|------|---------|------|------|------|-------------|----------------------|--------------------|-------|---------|------------------|-------------|-----|
|   |        |                     |      |         |      |         |      |      | TR   | IP.         | RESISTANCE POST-TRIP |                    |       | -TRIP   | STATE            |             |     |
|   |        |                     |      |         |      |         |      |      |      |             |                      |                    |       | RESIS   | RESISTANCE POWER |             | VER |
|   |        |                     |      |         |      |         |      |      |      |             |                      |                    |       |         |                  | DISSIPATION |     |
|   | AMPS   | AMPS                |      | AMPS    |      | AM      | AMPS |      | AMPS |             | SECONDS AT OHMS      |                    | OHMS  |         | WATTS AT         |             |     |
|   | 25°C   | AT 0°C              |      | AT 25°C |      | AT 60°C |      | AT°C |      | 25°C, 13.5A |                      | AT 25°C            |       | AT 25°C |                  | 25°C, 16V   |     |
|   | HOLD   | HOLD                | TRIP | HOLD    | TRIP | HOLD    | TRIP | HOLD | TRIP | TYP         | MAX                  | MIN                | MAX   | MIN     | MAX              | TYP         | MAX |
| Ш | 2.7    | 4.0                 | 8.9  | 2.7     | 6.5  | 1.4     | 3.8  |      |      |             | 5                    | 0.012              | 0.018 | 0.012   | 0.036            |             | 2.5 |

Agency Recognitions: UL, TUV, CSA

Reference Documents: PS300

Precedence: This specification takes precedence over documents referenced herein.

Reference documents shall be the issue in effect on the date of invitation for bid. Effectivity:

CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

© 2004, 2007 Tyco Electronics Corporation. All rights reserved.